

REMARKS

Claims 1-20 are pending in the application, and claims 1-11 and 13-20 have been rejected. Claim 12 has been objected to. Claim 12 has been cancelled. Claims 1, 7, 13, and 17 have been amended, and a new claim 21 has been added.

In paragraph one of the office action, the Examiner objected to claim 12 under 37 CFR 1.75(c) as being of improper dependent form. Claim 12 has now been cancelled.

I. CLAIM REJECTION UNDER 35 USC § 103

In paragraph 2 of the Office Action, the Examiner rejected claims 1-6, 13-14, and 17-20 under 35 USC § 103 (a) as being unpatentable over Frederick (267). The Examiner states, inter alia, that it would have been obvious to use a single data stream in order to simplify graphics processing. But Frederick does not disclose such an arrangement, nor do any of the other references cited by the Examiner. The present invention utilizes a single display screen to display disparate views. On one area of the screen is an out the window type three dimensional display, and on a second area is a lateral, or plan, two dimensional view. To create both displays on a single display requires a single data stream not shown by any of the references.

Furthermore the Examiner states that Frederick discloses an aircraft display system having a two dimensional display and a three dimensional display, the three dimensional display being an out the window display with terrain relative to altitude. That, however, is only a portion of the present invention. Each of the independent claims, as now amended recites that the weather display is shown only on the two dimensional portion of the display screen. This is because modern commercial aircraft treat weather as a two dimensional problem; that is, pilots fly around weather and ordinarily do not attempt to fly over or under weather. Thus there is no reason to display the weather information in a three dimensional view. Frederick apparently



does not make this distinction. By the present invention not showing a three dimensional view of weather needlessly, the clarity and ease of interpretation of the display of the present invention is enhanced. Each of the claims as now amended recite this advantage of the present invention. All of the dependent claims thus also incorporate this feature. Therefore, Applicant's amended independent claims 1, 7, 13, and 17 are believed to distinguish over and be unobvious in view of the Frederick reference. Dependent claims 2-6, 14, 16, and 18-20 are believed to properly depend, either directly or indirectly, from Applicant's amended independent claims and are believed allowable therewith as is new dependent claim 21.

In paragraph 3 the Examiner rejected claims 7-11 under 35 U.S.C. 103 (a) as being unpatentable over Frederick (276) in view of Wichgers, et al. The Examiner notes that Wichgers discloses the desirability of sensing velocity in order to correctly display an aircraft icon with respect to surrounding terrain. Wichgers does not show, however the feature of new claim 21 which states that the aircraft representation of the three dimensional portion of the display is represented forward of the actual position of the aircraft. Further the deficiencies of Frederick as noted above with respect to the claims as amended makes the Wichgers disclosure moot.

In Paragraphs 4 and 5 of the Office Action the Examiner rejects claims 15 and 16, respectively over Frederick in view of Frederick (987) and Block, for their teachings of the use of color to represent altitude or storm severity with colored displays. Again, however, the lack of a basic teaching of the present invention by Frederick (276) renders these rejections moot as well. Since Frederick fails to show the features now embodied in all the independent claims in this application, the claims dependent therefrom should be held to be allowable as well.

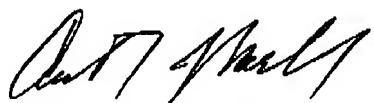


II. CONCLUSION

In view of Applicant's amendments and remarks, it is respectfully submitted that Examiner's rejections under 35 USC § 103, have been overcome. Accordingly, Applicants respectfully submit that the application, as amended, is now in condition for allowance, and such allowance is therefore earnestly requested. Should the Examiner have any questions or wish to further discuss this application, Applicants request that the Examiner contact the undersigned at (480) 385-5060.

If for some reason Applicants have not requested a sufficient extension and/or have not paid a sufficient fee for this response and/or for the extension necessary to prevent abandonment on this application, please consider this as a request for an extension for the required time period and/or authorization to charge deposit Account No. 50-2091 for any fee which may be due.

Respectfully submitted,



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